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(71) Applicant: ASAHI GLASS CO LTD

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(72) Inventor: TAKAHASHI SHINICHI
ISOMURA TOSHIAKI

(54) FORMATION OF CURRENT COLLECTING SECTION OF REFLECTION PREVENTING MULTI-LAYER FILM WITH ELECTRIFICATION PREVENTIVE EFFECT

with a low resistance value and large adhesive strength is formed.

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(57) Abstract:

PURPOSE: To form a current collecting section with good conductivity by bringing the alloy solder with the preset composition into contact with a reflection preventing multi-layer film having a conducting layer as the lamination under ultrasonic vibration.

CONSTITUTION: A reflection preventing multi-layer film 2 formed on a substrate 1 has an electrification preventing conducting layer as an inner layer, a reflection preventing layer made of an insulating thin film with a low refraction factor is formed on the face in contact with air. Metal solder 4 is stuck on the multi-layer film 2 while being applied with ultrasonic vibration at a low temperature not to damage the reflection preventing layer and connected to a lead wire or the like and grounded. The alloy solder 4 is mainly made of Pb and Sn, a trace quantity of one kind of Zn, Sb, Al, Ti, Si, Cu is added to form it. This alloy solder removes bubbles on the interface and infiltrates into the inner layer, thus a current collecting section

